

SERVIR

In Action

SERVIR connects space to village by making geospatial information useful to developing countries. SERVIR is a joint development initiative of NASA and USAID, working in partnership with leading regional organizations around the globe.

SERVIR empowers decision-makers with tools, products and services to act locally on climate-sensitive issues including disasters, agriculture, water, and ecosystems and land use.

DISASTER PREPAREDNESS AND RESPONSE

SERVIR is enabling local decision-makers to improve disaster preparedness and response.



FOREST FIRE MONITORING AND DETECTION SYSTEM

Detects and monitors wildfires and sends alerts to mobile devices.



FLOOD FORECASTING SYSTEM

Sends email alerts with maps of current and forecasted flooding.

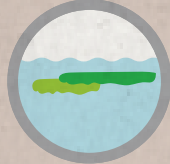


LANDSLIDE HAZARD ASSESSMENT AND FORECASTING MODEL

Identifies areas susceptible to landslides.

AGRICULTURE AND FOOD SECURITY

SERVIR helps to assess and predict the condition of food supplies by enabling local actors to monitor critical factors which impact agriculture.



OCEAN ALGAL BLOOM ALERT

Alerts officials to harmful algal blooms so that they can protect fisheries and people.



FROST MONITORING AND FORECASTING SYSTEM

Sends daily emails with frost predictions to farmers.

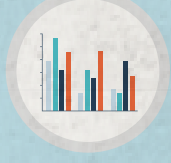


AGRICULTURAL MONITORING FOR FOOD SECURITY MODEL

Compares current and historical crop data to predict increases and shortfalls in agricultural yields.

WATER

SERVIR helps local partners to monitor and manage water resources more efficiently and productively.



CREST STREAMFLOW VIEWER

Graphically presents information on precipitation to assess flood potential.



SNOW COVER EXTENT TOOL

Quantifies and displays snowpack extent over time in a web map.



FLOOD AND CLIMATE INFORMATION FOR MANAGEMENT OF DISASTERS AND MOSQUITO-BORNE DISEASE TOOL

Assesses vector-borne disease risk based on rainfall forecasts and existing surface ponded water.

ECOSYSTEMS AND LAND USE

SERVIR helps natural resource managers to map land cover and analyze carbon and biodiversity to manage ecosystems more sustainably.



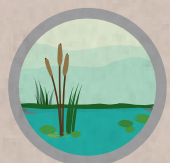
REDD+ FOREST CARBON ASSESSMENT

Identifies areas where forest conservation will be most beneficial for carbon sequestration.



LAND-COVER MAPPING FOR GREENHOUSE GAS EMISSIONS PROGRAM

Develops land cover and land use maps in support of GHG emissions inventories and land use analyses.



RESOURCE INVENTORY AND WETLAND ECOSYSTEMS ASSESSMENT

Maps changes in land use and land cover to biodiversity and ecosystems.

30+

Number of countries in which SERVIR trains governments and other stakeholders to integrate geospatial technologies into their work

40+

Number of climate change adaptation and mitigation products that have been developed.

SUPPORTING THE NEXT GENERATION OF PROFESSIONALS

In collaboration with the American Association of Geographers, SERVIR supports students from Africa and Asia to develop skills to solve challenges facing their countries using Earth observations and geospatial technologies.

SERVIR gives local users the tools and skills they need to help improve resilience to climate change.